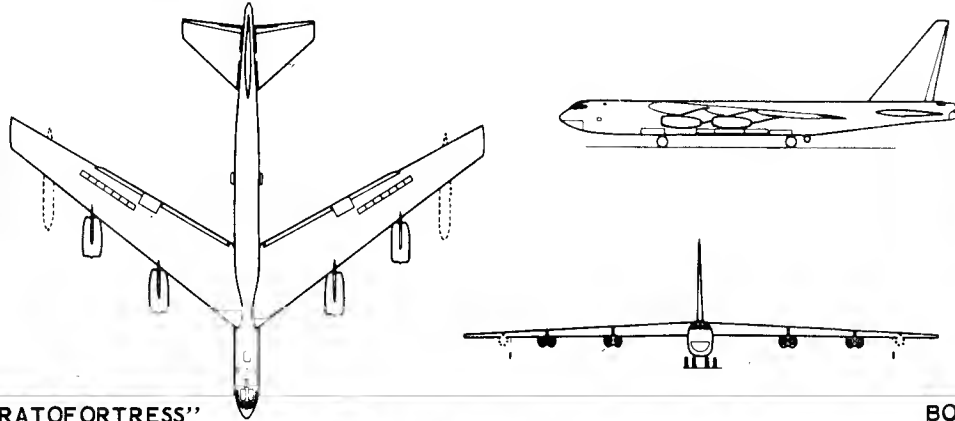


Characteristics Summary

BOMBER B-52F



"STRATOFORTRESS"

BOEING

Wing Area 4000 sq ft Length 156.5 ft
 Height (overall) 48.3 ft
 Span 185.0 ft Height (fin folded) 21.5 ft

AVAILABILITY

PROCUREMENT

Number available
(As of 1 Sep 63)

Number to be delivered in fiscal years

TEST	INVENTORY	TOTAL	FY 63			
1	85	86	0			

STATUS

- The B-52F airplane differs from the B-52C, D, E by the installation of the J57-P-43WA engines in place of the J57-P-19W, 29W, and installation of engine driven alternators.
- Modification of the wing structure, addition of new pods; improvement to water injection system. Equivalent: None
- tem are items necessary for incorporation of the J57-P-43WA engines.
3. Program Initiated: Nov 54
4. First Flight: Mar 58
5. First Acceptance: May 58
6. Out of production: Dec 58

Mfr's Model: 464-260

POWER PLANT

(8) J57-P-43WA***

Pratt & Whitney

ENGINE RATINGS

SLS LB - **RPM - MIN

Max: *13,750-6900/9650- 5

Mil: 11,200-6400/9650- 30

Nor: 9,500-6100/9350-Cont

* Wet

** First figure represents low pressure spool; second figure represents high pressure spool.

***Equipped with sound suppressors.

NOTE: At present there are no requirements for ATO.

FEATURES

Crew 6

Cabin pressurization, heating and cooling

Braking parachute

Quadricycle landing gear

Aerodynamic spoilers (air-brake)

Strike camera station

ASB-4A high speed bombing radar

MD-9 fire control system

Folding fin

Crosswind steering

Engine driven alternators

Pneumatic driven hyd. packs

Anti-Skid Brakes

A/A42G-11 Auto. Flt. Control

Max fuel cap: 41,553 gal

ARMAMENT

Turret 1

Guns . . . 4 x .50 cal (M-3)

Ammunition (tot) 2400 rds

BOMBS:

No.

New Series

27 (Family of Clusters)

(1000 lb ea)

Special Weapons

MK-15

MK-36

MK-39

MK-41

MK-43

MK-28

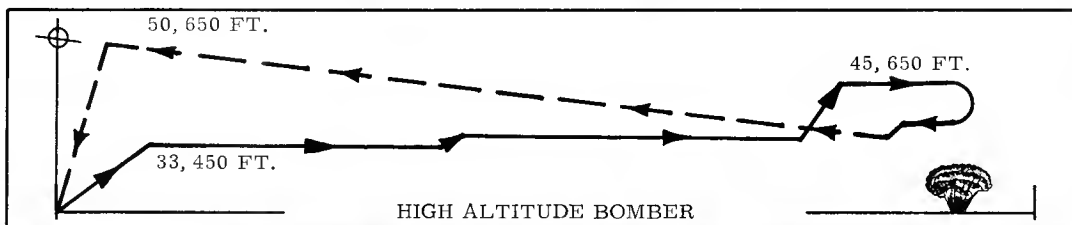
NOTE: Airplane will carry

4 ADM-20A & 2 AGM-28A

Missiles

Max Bomb Load: (2)17,700 lb

Characteristics Summary Basic Mission B-52F



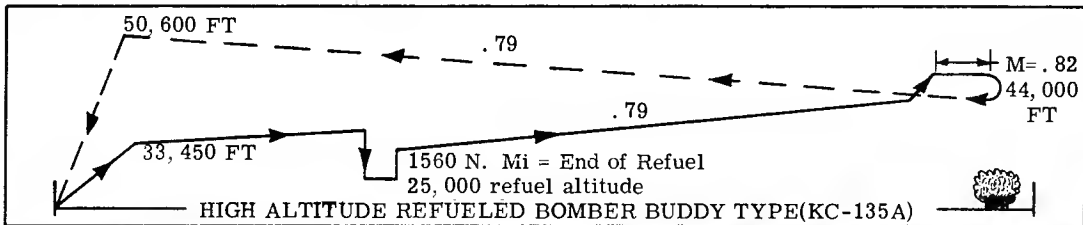
PERFORMANCE

COMBAT RADIUS	FERRY RANGE	S P E E D
3345 naut. mi with 10,000/400 lb payload at 454 knots avg. in 14.81 hours.	6930 naut. mi (c) with 41,553 gal fuel at 454 knots avg. (b) in 15.28 hours at 443,393 lb T.O. wt.	COMBAT 495 (TAS) knots at 45,650 ft alt, mil power MAX 553 (d) knots at 20,500 ft alt, mil power BASIC 521 knots at 35,000 ft alt, mil power
C L I M B	C F I L I N G	T A K E - O F F
2300 fpm sea level, take-off weight normal power	37,800 ft 100 fpm, take-off weight normal power	ground run 7000 ft Max Power
5680 fpm sea level, combat weight military power	46,600 ft 500 fpm, combat weight military power	over 50 ft height 9100 ft Max Power
L O A D	W E I G H T S	S T A L L I N G S P E E D
Bombs/Chaff: 10,000/400 lb Ammunition 2400 rds/.50 cal Fuel: 40,970 gal protected 0 % droppable 14.4 % external 14.4 % Density:(JP-4) lb/gal (6.5)	Empty..... 164,936 lb Combat... 283,600 lb (b) Take - off 450,000 lb limited by structure (inflight)	147 knots initial buffet power-off, landing con- figuration, take-off weight. TIME TO CLIMB 19.8 min to cruise altitude of 33,450 ft

NOTES

- Performance Basis:
 - Data Source: Flight Test
 - Does not include 10,000 lb water
 - Limited fuel capacity
 - Limited by structure
- Revision Basis: Data reCOORDINATED by OCAMA July 64.

Characteristics Summary Basic Mission B-52F



PERFORMANCE

COMBAT RADIUS	FERRY RANGE	S P E E D
(e) 4160 naut. mi 10,000/400 lb payload at 460 knots avg. in 20.5 hours.	_____ naut. mi (c) with 41,553 gal fuel at _____ knots avg. in _____ hours at 443,393 lb T.O. wt.	(TAS) COMBAT 490 knots at 44,000 ft alt, max power (d) MAX 553 knots at 20,500 ft alt, max power BASIC 521 knots at 35,000 ft alt, max power
C L I M B	C E I L I N G	T A K E - O F F
2300 fpm sea level, take-off weight normal power	37,800 ft 100 fpm, take-off weight normal power	ground run 7000 ft no assist max power
4850 fpm sea level, combat weight military power	45,600 ft 500 fpm, combat weight military power	over 50 ft height 9100 ft no assist max power
L O A D	W E I G H T S	S T A L L I N G S P E E D
Bombo/Chaff: 10,000/400 lb Ammunition 2400 rds/.50 cal Fuel: 40,970 gal protected 0 % droppable 14.4 % external 14.4 % Density: JP-4 lb/gal (6.5)	Empty..... 164,936 lb Combat... 320,000 lb (b) Take - off 450,000 lb limited by structure (inflight)	147 knots power-off, landing config- uration, take-off weight TIME TO CLIMB 20.0 min to cruise altitude of 33,450 ft.

NOTES

- Performance Basis:
 - Data Source: Flight Test
 - Does not include 10,000 lb water
 - Limited fuel capacity
 - Limited by structure
 - Surge valves closed; 3000 gal tanks on for refuel. Increase range by 2.4% when tanks are dropped after refuel.
- Revision Basis: Data reCOORDINATED by OCAMA July 64.